

(FILE 'HOME' ENTERED AT 21:52:44 ON 31 MAY 2003)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED  
AT 21:52:52 ON 31 MAY 2003

L1 292 S TRANSGEN? (L) (SCURFY OR SF OR FKHSF)  
L2 105 DUP REM L1 (187 DUPLICATES REMOVED)  
L3 89 S L2 AND TRANSGENIC  
L4 43 S L3 AND PY<=1998  
L5 43 FOCUS L4 1-  
L6 3 S L5 AND (SCURFY (L) TRANSGENIC)  
L7 17 S SCURFY (L) TRANSGENIC  
L8 6 DUP REM L7 (11 DUPLICATES REMOVED)  
L9 6 SORT L8 PY

=> d an ti so au ab pi 19 4

L9 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:133832 CAPLUS  
DN 132:190512  
TI Gene causing the mouse scurfy phenotype and its human ortholog  
SO PCT Int. Appl., 59 pp.  
CODEN: PIXXD2  
IN Brunkow, Mary E.; Jeffery, Eric W.; Hjerrild, Kathryn A.; Ramsdell, Fred  
AB The present invention relates generally to the discovery of novel genes which, when mutated, results in a profound lymphoproliferative disorder. In particular, a mutant mouse designated Scurfy was used to identify the gene responsible for this disorder through backcross anal., phys. mapping, and large-scale sequencing. Isolated nucleic acid mols. are provided which encode Fkhsf, as well as mutant forms, which belongs to a family of related genes, all contg. a winged-helix DNA binding domain. The mouse Fkhsf gene spans .apprx.14 kb and contains 11 coding exons; the cDNA spans a coding region of 1287 bp and encodes a protein of 429 amino acids. The human ortholog to mouse Fkhsf cDNA is also provided. Also provided are expression vectors suitable for expressing such nucleic acid mols., and host cells contg. such expression vectors. Utilizing assays based upon the nucleic acid sequences disclosed herein (as well as mutant forms thereof), numerous mols. may be identified which modulate the immune system.  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI WO 2000009693 A2 20000224 WO 1999-US18407 19990811  
WO 2000009693 A3 20000615  
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,  
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
CA 2339409 AA 20000224 CA 1999-2339409 19990811  
AU 9955594 A1 20000306 AU 1999-55594 19990811  
EP 1105479 A2 20010613 EP 1999-942154 19990811  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
US 6414129 B1 20020702 US 1999-372668 19990811  
JP 2002538764 T2 20021119 JP 2000-565128 19990811  
US 2002168736 A1 20021114 US 2002-115195 20020402

(FILE 'HOME' ENTERED AT 21:52:44 ON 31 MAY 2003)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED  
AT 21:52:52 ON 31 MAY 2003

L1 292 S TRANSGEN? (L) (SCURFY OR SF OR FKHSF)  
L2 105 DUP REM L1 (187 DUPLICATES REMOVED)  
L3 89 S L2 AND TRANSGENIC  
L4 43 S L3 AND PY<=1998  
L5 43 FOCUS L4 1-  
L6 3 S L5 AND (SCURFY (L) TRANSGENIC)

=> d an ti so au ab 16 1-3

L6 ANSWER 1 OF 3 MEDLINE  
AN 96152740 MEDLINE  
TI Disease in the scurfy (sf) mouse is associated with overexpression of cytokine genes.  
SO EUROPEAN JOURNAL OF IMMUNOLOGY, (1996 Jan) 26 (1) 161-5.  
Journal code: 1273201. ISSN: 0014-2980.  
AU Kanangat S; Blair P; Reddy R; Deheshia M; Godfrey V; Rouse B T; Wilkinson E  
AB The murine X-linked lymphoproliferative disease **scurfy** is similar to the Wiskott-Aldrich syndrome in humans. Disease in **scurfy** (sf) mice is mediated by CD4+ T cells. Based on similarities in **scurfy** mice and **transgenic** mice that overexpress specific cytokine genes, we evaluated the expression of cytokines in the lesions of **sf** mice by Northern blotting, quantitative reverse-transcription polymerase chain reaction (RT-PCR) and by hybridization in situ. Overall, the phenotypic characteristics of **scurfy** disease correlated well with increased interleukin (IL)-4 (lymphadenopathy), IL-6 (B cell proliferation, hypergammaglobulinemia), IL-7 (dermal inflammatory cell infiltration), and high levels of tumor necrosis factor-alpha (wasting).

L6 ANSWER 2 OF 3 MEDLINE  
AN 95015867 MEDLINE  
TI CD4+CD8- T cells are the effector cells in disease pathogenesis in the scurfy (sf) mouse.  
SO JOURNAL OF IMMUNOLOGY, (1994 Oct 15) 153 (8) 3764-74.  
Journal code: 2985117R. ISSN: 0022-1767.  
AU Blair P J; Bultman S J; Haas J C; Rouse B T; Wilkinson J E; Godfrey V L  
AB Mice hemizygous for the X-linked mutation, **scurfy** (sf), exhibit a fatal lymphoreticular disease that is mediated by T lymphocytes. To evaluate the respective roles of CD4 or CD8 single positive T cells in **scurfy** disease, neonates were treated with mAbs directed against the CD4 or CD8 molecules. Whereas mice treated with an anti-CD8 Ab developed lesions and succumbed to disease at the same time (17 days) as their untreated **scurfy** littermates, mice treated with an anti-CD4 Ab lived up to 11 wk before developing **scurfy** disease. To insure a more complete elimination of the T cell subsets, the **scurfy** mutation was bred onto beta 2-microglobulin (beta 2m)-deficient (CD8-less) and CD4-deficient **transgenic** mouse lines. Whereas there was little moderation of disease in beta 2m-deficient **scurfy** mice, CD4-deficient **scurfy** mice had markedly decreased **scurfy** lesions and a prolonged life span, similar to that of anti-CD4-treated sf/Y mice. Additionally, **scurfy** disease was transplanted into H-2-compatible nude mice through the adoptive transfer of CD4+CD8- T cells, but not CD4-CD8+ T cells. Flow-cytometric analysis revealed that sf/Y mice have an increased percentage of activated CD4+ T cells in their lymph nodes. In addition, there is an increase in the *in vitro* production of cytokines in the cultured splenocytes of CD8-less, but not CD4-less, **scurfy** mice. These data suggest that CD4+ T cells are critical mediators of disease in the **scurfy** mouse.

L Number	Hits	Search Text	DB	Time stamp
1	3	Ramsdell-fred.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
7	30012	transgenic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
16	1609	800/\$2.cc1s.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
13	1	(US-20020016974-\$).did. or (WO-200009693-\$).did.	US-PGPUB; DERWENT	2003/05/31 21:47
22	1	800/\$2.cc1s. and scurfy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
28	21	transgenic SAME (scurfy or sf or FKhsf)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
34	21	scurfy or fkhsf	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
40	8	Brunkow-mary\$3.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/31 21:47
46	1	(US-6414129-\$).did. or (US-20020016974-\$).did. or (WO-200009693-\$).did.	USPAT; US-PGPUB; DERWENT	2003/05/31 21:47